

"Replacement Sheets"
Applicants: David Baltimore, et al.
U.S. Serial No. 08/813,323
Filing Date: March 10, 1997
Group Art Unit: 1642 @ (703)-305-2008
Title of the Invention: Truncated Crafl
Inhibits CD40 Signaling Sheet 1 of 11

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FIGURE 1

M H	MESSKKMDAAGTLQPNPPLKLQPDRGAG.SVLVPEQGGYKEKFVKTVEDK	49
M H	YKCEKCRLVLCNPKQTECGHRFCESCMAALLSSSSPKCTACQESIIKDKV	99
M H	FKDNCCKREILALQVYCRNEGRGCAEQLTLGHLLVHLKNECQFEELPCLR	149
M H	ADCKEKVLRKDLRDHVEKACKYREATCSHCKSQVPMIKLQKHEDTDCPCV	199
M H	VVSCPHKCSVQTLLRSELSAHLSECVNAPSTCSFKRYGCVFQGTNQQIKA	249
M H	HEASSAVQHVNLLKEWSNSLEKKVSLLQNESVEKNKSIQSLHNQICSFEI	299
M H	EIERQKEMLRNNESKILHLQRVIDSQAEKLKELDKEIRPFRQNWEEADSM	349
M H	KSSVESLQNRVTELESVDKSAGQAARNTGLLESQLSRHDQTLSVHDIRLA	399
M H	DMDLRFQVLETASYNGVLIWKIRDYKRRKQEAVMGKTLSLYSQPFYTGYF	449
M H	GYKMCARVYLNGDGMGKGTHLSLFFVIMRGEYDALLPWPFKQKVTLMLMD	499
M H	QGSSRRHLGDAFKPDPNSSSFKKPTGEMNIASGCPVFVAQTVLENGTYIK	549
M H	DDTIFIKVIVDTSDLPDP	567



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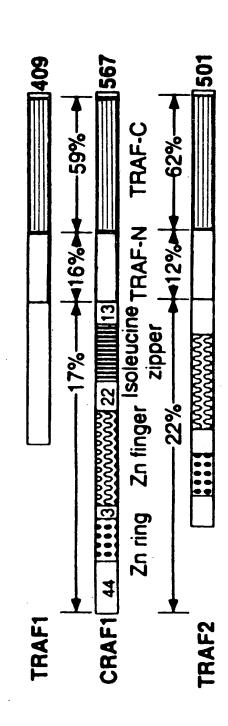


FIGURE 2A



"Replacement Sheets"

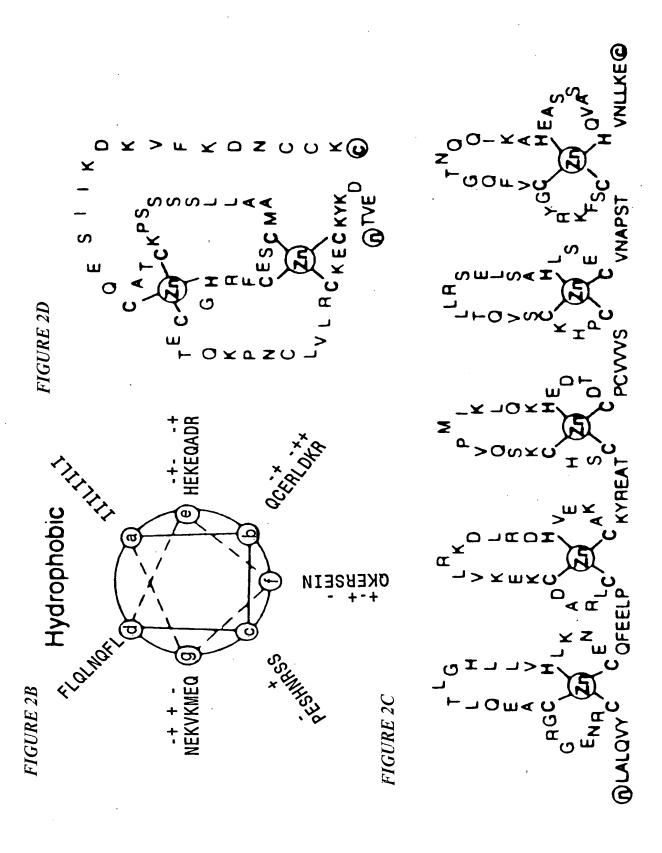
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CD40 Fas TNFαRII Homo- binding binding binding dimerization	+	•	•	+	+
TNFaRII binding	•	Q	9	Q	Q
Fas binding	. 1	<u>Q</u>	Q	N Q	Q
CD40 binding	+	•	•	+	+
	(324–567) III	C26NX (324-410)	C26ANB (324-487)	TRAF domain	C26XC (415–567)

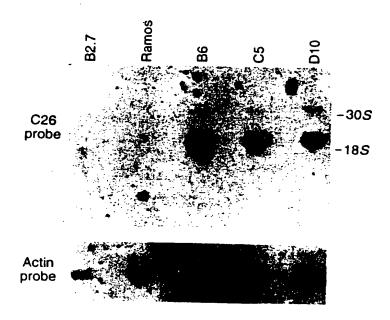
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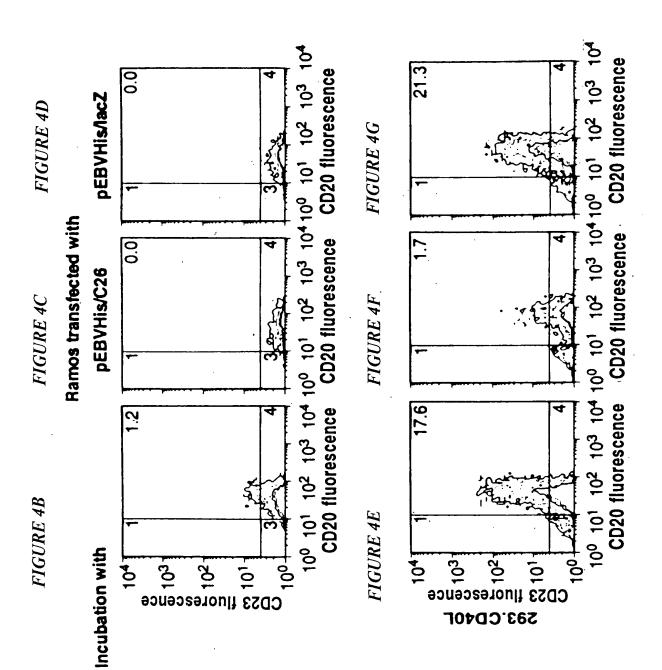
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FIGURE 4A



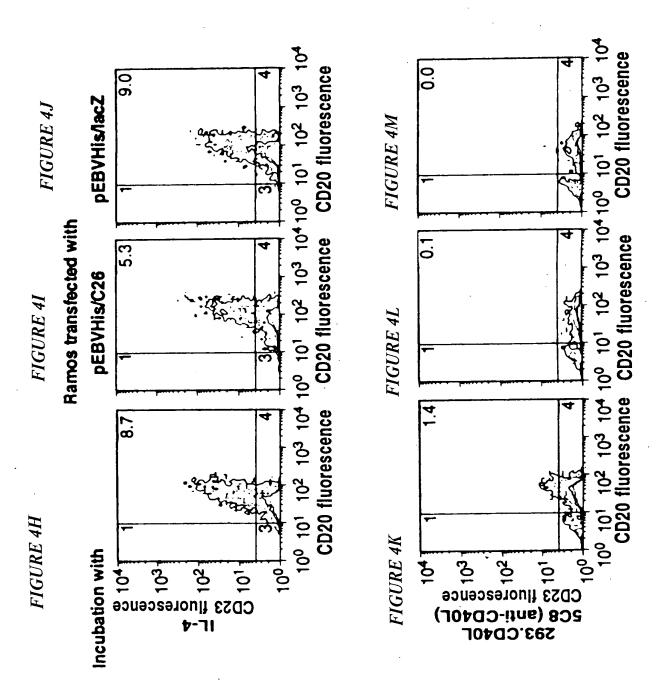














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TCCCTTCCGG AGGCTTGCTG CTTGGCCGAC GTCTCTCTAC AGCTTCTCCC GTTTCCTAAG ACCCCTAAAG CTACAAGGAG GGTGCTGTGC CGCCCTGCTG CAAGGTGTTT GAATGAAGGC AAATGAATGT GAGAAAAGAC TCACTGCAAG CTGTGTGGTG GAGTGCACAC CIGCGTTTT GCACGIGAAC SAATGAAAGT TGAGATCGAG CCTGCAGCGG GAACCGAGTG GCTGCATGGC ACGGGGTGCT CAGATTGTCC AGTCCCTCCA CTCGCAACAC ATGACATCCG GGAAGACCCT TCTGTGTGGA CAGAATTTCA AGCCTAACCC AGCAAGGAGG AGTGCCGCCT TCATCAAAGA TCTACTGTCG TGCACCTAAA AAAAAGTACT CCACGTGCAG GGAGTGAGTT AGCGCTATGG CCGCGGTACA CCCTGCTGCA TCTGCAGCTT AGATCCTTCA AGGAGATCCG TIGAGIGITC GCCAGCTACA AGCAGTGTGG GCCGTCATGG GCCCTTCAGG CATGAAGACA ACTCTTCTAA TGTAGTTTTA AACGAGICCA GAACTGGACA GGCCAGGCGG GGCTCCGACG GCGCACGGCA CICGIGCCGG AAGTGCGAGA TTCTGCGAGA CATCTGCTGG GACTGCAAAG TACCGCGAGG GAGGCCAGCT AAGAAGGTTT CACAACCAGA GGCACACTGC CAAGAAAGCA CAAAAGTGCG TGACCAGACG CTCCCTGGAG CCAAAGCCTG CAGCATGAAG CCTCGAGACC GAAGCAGGAG ACTGCAGAAA CAGCGTTCAG CCCCAGCACC CAAGGCCCAT GCTCCGAAAC TGGCCACCGG AGAGATTCTG GACTCTGGGA GGCCTGTAAA GAAACTGAAA AGGCTGGCAC ACTCCTTACA GGATGCTGCT AGGGTCCGTG AGACAAGTAC CACAGCGTGC TCTGCGTGCC CGGAGCAGCT AGACGGTGGA AGACGGAGTG GTCCAAAATG GCTGCAAGAG AACTTCCCTG CCATGATCAA CTCACAAGTG AGGAAGCGGA AGAGCGTAGA TGAGCCGGCA GGTTCCAGGT ACAAGCGCCG ACGTGGAAAA GTGTCAATGC ACCAGCAGAT AGTGGAGCAA ACAAGAGCAT AGAAGGAGAT GCCAAGCAGA TTGAAGGATA GCTTCTCTAG GCAAAAAGAT ATCGCGGCGC CAGGGTACAA ACTGAGCTGG GAGTCCCAGC ATGGACCTGC ATCCGTGACT CAGTTTGAGG AGCCAAGTGC GTATCCTGCC TTGTCCGAGT CTGCTGAAGG STIGAGAAAA GTAATCGACA CAGAACTGGG CTGCAGCCTG AGCTCCTCCA AGAGGTTGTG TTGCGGGATC ATTGAGAGGC ATGGAGTCAA AAGTTTGTGA AACCCGAAGC AAGGATAATT TCCCCATTAC TCCCTTCTGA 1141 1261 1321 1381 441 1081 1201 121 181 241 421 541 661 721 781 841 901 961 021 301 361 481 601

GGGTACAGGG

GGCGGCCTCG

CGGCCGAACG

GCGCCTGAGC

GATGCGCGCG

GGCGGCGGAG



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ATTTAAAAG CCTCGAGGGC GCGTGGAGAA GATGGATCAG SAGAGCCACA IGAAGGATTA TTCCTTAACT CGTTTCAAAT CAGCAGCTTC CATAGTGGAT AGAAGGTAAC AGGACCTTGT CGCCCAAACT TTTCATTTC ATGATTTTC GTGTACAGTA GGTGCAACTC CACTTATGCT ACCCCAACAG CAGTCTTTGT IGGATTCAGC GCCCTCAGAA TGGCTGGCAG TTGTCATTAT TTATTAAGGT ACACCCACTC GTGCCAGGGT CAGAGAAGGT AAAAAGAAAC TAGCTGGAGT TAAAATTCAG GGAGGTCGAG TAAACTAGCC TTCAAGCCTG GGAGGTCCTC CAGAAAGTGA AGCAGGGCGG TATAAGATGT TCGCTGTTTT TCTGGCTGCC GATACAATCT CATGTGGGGG ATACTCATCC SAATATCGCC TATTAAAGAT CTGACAAGAA AGGAGGAGAA GATTTTCTAA ATACTGCTGT CATATATGCT GACACACTTG GCCGTTCAAG GGGAGATGCG STGTCTTCAC TTATTTGGC GACCCCAACG AAGGTGGGAA AAAGAGAACA AAACAATCAC TGGGGAAAGG TGTTGCCATG CCGGAGAGAT ACGGGACGTA GGGTGAGCTA AAGCAGCCGG AACAAGATAA TCTACACAGG GCCGTCATCT TGCCTGACCC GTCTATTTA GGCGCAGAGG TAAACACCAA TTAAAATCAT TCCTCTGGGG SGGTCCTCTC AAGAAACCCA GTTCTAGAGA ACCTCGGATC TGTGAAAACA TTATCCATC ATCTAGTATT ATTGTATATT GGGGACGGAA TATGATGCTC AGCCAGCCTT 2161 341 561 921 1981 2041 2101 2221 2281 621 741 801 861 681

FIGURE 5A



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ATGGGGCAGC AGACCGTGGA AGACCGAGTG GCTGCAAGAG CTCACAAGTG ACAAGCGGCG GCCGGGACTT TGAGCCGGCC AAAAGATGGA GTAGTGCTGG GTCCAAAATG AACTTCCATG ACGTGGAGAA CGATGATCGC GTGTCAATGC ACCAGCAGAT AGTGGAGCAA ACAAGAGCAT AAAAGGAAAT GCCAAGCAGA AGGAAGCAGA AGAGCGTGGA TGAGCCGGCA GCTTCCAGGT CAGAGCAGTT TTGCAGCCCA GAGTCGAGTA CATTTGAAG CAGGGGACAA CTGCTGAAGG ACCGAGCTGG ATTCGCGACT GCCCCCGTC 222252522 CACACTGACC AAGTTTGTGA AGCCCGAAGC AAGGATAATT AGAGGTTGTG CTGCGAGACC AGTCAGGTTC GTGTCCTGCC TTGTCAGAGT GTAGAAAAA ATTGAGAGAC GTGATCGACA CAGAACTGGG GAGTCCCAGC ATGGACCTGC AGCTCTTCAA CGAGCCGGGG CATCTGGAAG GCTAAAGCTG TTACAAGGAA SGCCCTGCTG AGGCCTGCTG CCTAGCCGAC GCTCTTCCCC GAGGACGCGC TCCTAAAATG GGTGCTGTGC TAAGGTGTTT SAATGAAAGC AAATGATTGC SAGGAAAGAC CCACTGCAAG CTGCGTGGTG CTGCGTTTTT SCACGTCAAC GAATGAAAGT TGAAATTGAA TTTACAGCGA CCCTTCCGG GAACCGCGTG GAGTGCACAC CCCCCTGCG CCCCTCCTCC GACCGCGGCG AACTCCTCT CTAACCCGCC TGCATTTAAA AGCGCTATGG CCGCCGTGCA CCTTGTTGCA TATGTAGCTT ACGACATCCG ATGGAGTGCT AACAAGGAGG TCTATTGTCG CCACATGCAG CCGACTGTCC GGAGCGAGTT AGGAGATCCG AGTCCCTCCA CTCGGAACAC AGTGCCACCT SCTGCATGGC TCGTTAAAGA AAAAGGTCTT AAATCCTTCA GCCAGCTACA TGTAGTTTTA CTGAGTGTGC GGCAGCCGCG GAACGCTGCG GGCCCCGCGAG CAAGAGAGCA CATCTGCTGG SACTGCAAAG GAGCTTGACA GGCCAAGTGG 229525252 GCCTGCAGA TTTGTCCCTG AAGTGTGAGA TTCTGCGAGA SCTCTTCAGA TACCGGGAAG CACGAAGACA ACTCTCCTGA SAGGCCAGCT CACAATCAGA AATGAATCCA AGCAGCGTGG AAGAAGGTTT CGGGGGAGCG IGACCAGATG CCTGGAGACC TCCAGCCGGC AGAAATTCTG CAGCGTCCAG CTCGCTCGAA CAAGAGTGCG CCGGGGGAGCA TGGGCACCGC CCCCAGCACC CAAGGCCCAC ACAAAGTTTG GCTTCGAAAT GAAACTGAAG CAGCATGAAG SAGCGGCGAC CTCTCCTGGC GGACAAGTAC AACGCTGGGA GGCGTGTAAA SCTGCAGAAA SACGCCAGTT TACAGCGTGT TGTGCGTCCT 781 541 721 961 241 301 361 601 661 841 901 1021 1081 1141 1201 1261 1321



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GGAAAACATA GAGGAAGCGG TAAATATTGC AAAAACACAC SAGAATTTAT TTTGTTTCA TCTACACTGG TGGGGAAGGG TGCTTCCTTG ATGGGACATA TGCCGGATCC CACGTTTTAT CTGGAGAGAT SATTTGAACC GACGICATIT ACTTCGGATC TCCTCTGGGG TTGTGAGACG TGAACACCAA TAAGTAAAAG AAGAGTGCAA GTTCTAGAAA GCACACCTGA TTCAACAAGA AAAAATTCC GGGTCCTCTC AAGAAGCCCA TAATTAAGGT AGCCAGCCTT GGGGACGGGA TATGATGCCC GICCCTITAC AGAAGGCAAC GAAAAGGACC GTCAGCATGT TCTAAAATTC CCAAAAAAA GATGGATCAG GGCCCAAACT CATAGTGGAT CCACGCGTGA AAGATCTAGT CTACCTGAAC GCGTGGAGAA CAGCAGCTTC TTATTTATCC TCCTTAAACT AGCTGGACAT ATATCTTCTT GGAAGACCCT TTATTAAAGT TGGATTTAGC CTCGCGCTCA GCGGGAGGAG CTCTGAAGAA TTCATTTTA TGATTTTTCT TTTAAGGCCT TTGTCATCAT CACTCATGCT ACCCCAACAG CAGTCTTTGT GTGCCAGGGT CCACACTICA TGCAATTCTG GCTGGGGAGG CACTGAGGTC ACGCGTGCCG AAAAGAAACA ATTGTCTATT GCCGTCATGG TATAAGATGT CAGAAAGTGA TTCAAGCCCG TCTGGCTGCC GATACAATTT GGTTTTCATT ACGTGGGGAT TCGCTGTTTT GAAGCAGGAG CAGAAGGCGG AATAGACTAG TGTCAGAGAA TATGCTAAAC ACACACAC GAAATAGTAA AATACAGTAT TTACTTTGGT SACGCACTTG GCCGTTTAAG GGGAGATGCA GAATATCGCC TATTAAAGAT CTGATAAGTA GGTCTGTCTT 1621 1861 1921 2041 2101 2161 2221 2281 341 401 1741 1801 1981 1561 1681

FIGURE 6B